

CLAIM AMENDMENTS:

1. (Original) An imprinting material for use in imprint lithography comprising:

a composition having a viscosity associated therewith and including a surfactant, a polymerizable component, and an initiator responsive to a stimuli to vary said viscosity in response thereto, with said composition, in a liquid state, having said viscosity being lower than about 100 centipoises, a vapor pressure of less than about 20 Torr, and in a solid cured state a tensile modulus of greater than about 100 MPa, a break stress of greater than about 3 MPa and an elongation at break of greater than about 2%.

2. (Original) The imprinting material as recited in claim 1 wherein said surfactant comprises a non-ionic surfactant.

3. (Original) The imprinting material as recited in claim 1 wherein said surfactant comprises a fluorinated surfactant

4. (Original) The imprinting material as recited in claim 1 wherein said surfactant comprises a fluorinated non-ionic surfactant.

5. (Original) The imprinting material as recited in claim 1 wherein said monomer is selected from a set of monomers consisting essentially of epoxies, acrylates, methacrylates and vinyl ethers.



6. [[7.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said monomer is selected from a set of polymerizable component containing silicon therein.

7. [[8.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said monomer is a substituted acrylate.

8. [[9.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said monomer is a silicon-containing acrylate.

9. [[10.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said monomer is selected from a set of substituted acrylates consisting essentially of mono-substituted acrylates and multifunctional-substituted acrylates.

10. [[11.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said initiator is selected from a set of initiators consisting essentially of photo initiators and thermal initiators.

11. [[12.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said initiator is selected from a set of initiators consisting essentially of radical photoinitiators.

12. [[13.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said viscosity in said liquid state is less than about 25 centipoises.



13. [[14.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said viscosity in said liquid state is less than about 10 centipoises.

14. [[15.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said viscosity in said liquid state is less than about 5 centipoises.

15. [[16.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said vapor pressure is lower than about 5 Torr.

16. [[17.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said vapor pressure is lower than about 2 Torr.

17. [[18.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said tensile modulus is 100 MPa or greater.

18. [[19.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said break stress of about 3 MPa or greater.

19. [[20.]] (Currently Amended) The imprinting material as recited in claim 1 wherein said elongation at break is 8% or more.

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DRAWING AMENDMENTS:

The attached sheets of drawings include changes to FIGs. 1-6, respectively, correcting various informalities. These sheets, which include FIGs. 1-6, replace the original sheets including FIGs. 1-6.